

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	09/06/2018 09/06/2018	Zach Jojola

LM Start		Rating **	A	Issue No.	<b>3</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_ST0008_01_s_2013_3				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	<b>4</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_ST0008_01_f_2017_4				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard maintains a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	<b>5</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_ST0008_01_s_2013_5				
Comment Code					
Inspector Comment					
The Sacramento Yard has a written response plan and regular flood fight training.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	09/06/2018 09/06/2018	Zach Jojola

LM Start	0.60	Rating **	A/W	Issue No.	8
LM End	0.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.603983 °	38.603983 °
				-121.570268 °	-121.570268 °
DWR ID	DWR_ST0008_01_f_2018_8				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Beaver den on waterside toe road. Sac Yard will fill within the next few months.					

Photo 1 of 1 : FA\_2018\_ST0008\_284\_8\_20180906\_00012.jpg



View of beaver den on the waterside toe road. Fall 2018.

LM Start	0.87	Rating **	A/W	Issue No.	9
LM End	0.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.602871 °	38.602871 °
				-121.574960 °	-121.574960 °
DWR ID	DWR_ST0008_01_f_2018_9				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Beaver den on the waterside toe road.					

No Photos

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

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Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	09/06/2018 09/06/2018	Zach Jojola

LM Start	1.09	Rating **	A/W	Issue No.	16	
LM End	1.09	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.602169 °		38.602169 °
				-121.579000 °		-121.579000 °
DWR ID	19076					
Comment Code						
Inspector Comment						
FS_ID:44787						
DS_ID:19076						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: A concrete saddle found on slough/drainage. No pump was found on LS and no structure/pipe found on WS.						
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, at an unknown depth. Grouted in place. Remains of concrete structure found on the landside (LS).						
[Additional Reference(s): USACE Sacramento O&M Manual 122.1, August 1955, (RM 174)].						
FS Date: 4/28/2015 2:44:05 PM						

Photo 1 of 3 : UCIP\_FA\_2018\_44787\_20605.jpg



Landside view: overview

LM Start	<b>1.09</b>	Rating **	A/W	Issue No.	<b>16 (cont)</b>
LM End	<b>1.09</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_44787\_20604.jpg



Landside view: remaining of concrete structure

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	09/06/2018 09/06/2018	Zach Jojola

LM Start	1.09	Rating **	A/W	Issue No.	16 (cont)
LM End	1.09	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.602169 °	38.602169 °
				-121.579000 °	-121.579000 °
DWR ID	19076				
Comment Code					
Inspector Comment					
FS_ID:44787 DS_ID:19076 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: A concrete saddle found on slough/drainage. No pump was found on LS and no structure/pipe found on WS. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, at an unknown depth. Grouted in place. Remains of concrete structure found on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 122.1, August 1955, (RM 174)]. FS Date: 4/28/2015 2:44:05 PM					

Photo 3 of 3 : UCIP\_FA\_2018\_44787\_20606.jpg



Landside view: remaining of concrete structure on drainage/slough

LM Start	1.43	Rating **	A/W	Issue No.	7
LM End	1.59	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.600456 °	38.599713 °
				-121.584883 °	-121.587668 °
DWR ID	DWR_ST0008_01_f_2018_7				
Comment Code					
Inspector Comment					
2017 Site ID: SAP 1.4 R					
Status: Critical					
2017 Field Notes: New site, immediately upgraded to critical. Start of slump failure, deep cracks along levee crest, concern that a large slump failure will occur from the next heavy rain.					
Site History:					
DWR Inspector Comment: Did not observe significant damage on the waterside slope. Minor cracking on the crown. Recommend monitoring.					

Photo 1 of 1 : FA\_2018\_ST0008\_284\_7\_20180924\_00013.jpg



View of the cracking on the crown. Fall 2018.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	09/06/2018 09/06/2018	Zach Jojola

LM Start	1.74	Rating **	A/W	Issue No.	15
LM End	1.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.599546 °	38.599546 °
				-121.590235 °	-121.590235 °
DWR ID	DWR_ST0008_01_s_2018_15				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Runoff erosion on oversized levee section. Lcoated on waterside levee slope. Recommend monitoring.					

Photo 1 of 1 : FA\_2018\_ST0008\_284\_15\_20180904\_00002.jpg



View of erosion on waterside slope. Spring 2017.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	09/06/2018 09/06/2018	Zach Jojola

LM Start	0.03	Rating **	M	Issue No.	2
LM End	0.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.602613 °	38.602613 °
				-121.556021 °	-121.556021 °
DWR ID	DWR_ST0008_02_s_2016_2				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA\_2018\_ST0008\_285\_2\_20180904\_00004.jpg



Updated view of rodent holes on landside slope. Fall 2017.

LM Start	<b>0.03</b>	Rating **	M	Issue No.	<b>2 (cont)</b>
LM End	<b>0.03</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2018\_ST0008\_285\_2\_20180904\_00005.jpg



View of rodent holes on LS slope of the levee near entry gate. Fall 2016..

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	09/06/2018 09/06/2018	Zach Jojola

LM Start	1.26	Rating **	A/W	Issue No.	1
LM End	1.79	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.597023 °	38.594527 °
				-121.577558 °	-121.586638 °
DWR ID	DWR_ST0008_02_f_2017_1				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description:

Site ID No:260

Site Designation:LMA-55

Repair Type: Erosion

Rating:Area of Concern

Field Date:6/5/2017

Notes: Minor wavewash on landside levee slope; no active erosion; no cross section taken, photo only. The erosion is not within the prism. Sac Yard will fix after vegetation gets burned. Fall 2018.

LM Start	<b>1.26</b>	Rating **	A/W	Issue No.	<b>1 (cont)</b>
LM End	<b>1.79</b>	Issue Type +	Ma	Location *	

Photo 1 of 4 : FA\_2018\_ST0008\_285\_1\_20180906\_00009.jpg



View of the worst section of erosion, just past the gate near the end of the unit. Fall 2018.

Photo 2 of 4 : LEVAL\_FA\_2018\_260\_471.jpg



Photo from storm site evaluations.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	09/06/2018 09/06/2018	Zach Jojola

LM Start	<b>1.26</b>	Rating **	A/W	Issue No.	<b>1 (cont)</b>
LM End	<b>1.79</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.597023°	38.594527°	
			-121.577558°	-121.586638°	
DWR ID	DWR_ST0008_02_f_2017_1				

**Comment Code**

**Inspector Comment**

**Levee Evaluation Comments**

**Description:**

Site ID No:260

Site Designation:LMA-55

Repair Type: Erosion

Rating:Area of Concern

Field Date:6/5/2017

Notes: Minor wavewash on landside levee slope; no active erosion; no cross section taken, photo only. The erosion is not within the prism. Sac Yard will fix after vegetation gets burned. Fall 2018.

LM Start	<b>1.26</b>	Rating **	A/W	Issue No.	<b>1 (cont)</b>
LM End	<b>1.79</b>	Issue Type +	Ma	Location *	

Photo 3 of 4 : LEVAL\_FA\_2018\_260\_473.jpg



Photo from storm site evaluations.

Photo 4 of 4 : LEVAL\_FA\_2018\_260\_475.jpg



Photo from storm site evaluations.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	09/06/2018 09/06/2018	Zach Jojola

LM Start	1.28	Rating **	C	Issue No.	4
LM End	1.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.597138 °	38.597138 °
				-121.578038 °	-121.578038 °
DWR ID	DWR_ST0008_02_f_2017_4				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree limb on landside slope.					

No Photos

LM Start	1.54	Rating **	C	Issue No.	7
LM End	1.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.595952 °	38.595952 °
				-121.582557 °	-121.582557 °
DWR ID	DWR_ST0008_02_f_2017_7				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree trunk and limbs on landside slope.					

No Photos

LM Start	1.77	Rating **	A/W	Issue No.	5
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.594743 °	38.594743 °
				-121.586556 °	-121.586556 °
DWR ID	DWR_ST0008_02_s_2016_5				
Comment Code					
PR : Prunings					
Inspector Comment					
This is a seasonal pile but gets burned by the LMA each year.					

Photo 1 of 2 : FA\_2018\_ST0008\_285\_5\_20180904\_00006.jpg



Burn Pile. Fall 2016.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	09/06/2018 09/06/2018	Zach Jojola

LM Start	1.77	Rating **	A/W	Issue No.	5 (cont)	
LM End	1.77	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.594743 °		38.594743 °
				-121.586556 °		-121.586556 °
DWR ID	DWR_ST0008_02_s_2016_5					
Comment Code						
PR : Prunings						
Inspector Comment						
This is a seasonal pile but gets burned by the LMA each year.						

Photo 2 of 2 : FA\_2018\_ST0008\_285\_5\_20180904\_00007.jpg



View of the firewood on the landward side of the levee looking upstream. Spring 2016.

LM Start	1.77	Rating **	A/W	Issue No.	8
LM End	1.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.594710 °	38.594710 °
				-121.586582 °	-121.586582 °
DWR ID	DWR_ST0008_02_s_2017_8				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Runoff location, but not within the levee prism. Recommend monitoring.					

Photo 1 of 1 : FA\_2018\_ST0008\_285\_8\_20180904\_00008.jpg



View of erosion on waterside levee slope. Spring 2017.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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